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Introduction to Structural Motion Control: Connor, Jerome ...

structure. The frequency of the damper is tuned to a particular structural frequency so that when that frequency is excited, the damper will resonate out of phase with the structural motion. Energy is dissipated by the damper inertia force acting on the structure. The TMD concept was first applied by Frahm in 1909 (Frahm, 1909) to

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Motion based structural design is an alternate design paradigm that takes as its primary objective the satisfaction of motion related design requirements such as restrictions on displacement and acceleration.

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orthogonal directions and provide the capability for controlling structural motion in two orthogonal planes. Some examples of early versions of this type of damper are described next. • John Hancock Tower (Engineering News Record, Oct. 1975) Two dampers were added to the 60-story John Hancock Tower in Boston to reduce the response to wind...

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Broadens practitioners' understanding of structural motion control, the enabling technology for motion-based design. Provides readers the tools to satisfy requirements of modern, ultra-high strength materials that lack corresponding stiffness, where the motion requirements control the design. Equips engineers and designers to adapt to more-excitable, contemporary structures that experience more structural motion under service loading.

Structural Motion Engineering | Jerome J. Connor | Springer

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INTRODUCTION TO DYNAMICS OF STRUCTURES

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The assignments for this course are from the course textbook: Connor, J. J. Introduction to Structural Motion Control. Prentice Hall, August 2002. The table below also provides the lecture in which each homework is assigned.

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